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Important Safety Information

SAFETY PRECAUTIONS





The lightning flash with an arrowhead symbol, within the equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in this owner's manual.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

> The symbol for Class II (Double Insulation)

IMPORTANT SAFETY INSTRUCTIONS

- 1. Read these instructions.
- Keep these instructions
 Heed all warnings.
- Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
 Do not install near any heat sources such as radiators,
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- a Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If

the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 10. Protect the power cord from being walked on or pinched

- particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. 11. Only use attachments/accessories specified by the
- manufacturer. 12. Use only with the cart, stand, tripod, bracket,
- or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lighting storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

ADDITIONAL SAFETY INSTRUCTIONS

- 15. Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 16. Never expose the apparatus to dripping or splashing or place items such as vases, aquariums, any other item filled with liquid, or candles on top of the unit.
- Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.
- 18. Do not place anything on top of this unit.
- Do not place the apparatus on amplifiers or equipment that may produce heat.
- 20. Never block or cover the slots or openings in the unit. Never place the unit: 1) on a bed, sofa, rug or similar surface; 2) too close to drapes, curtains, or walls; or 3) in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation. The slots and openings are provided to protect the unit from overheating and to help maintain reliable operation.
- 21. Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and apparatus malfunction.
- 22. If the apparatus should emit smoke or an unusual odor, immediately disconnect the power cord from the wall outlet. Wait until the smoke or smell stops, then ask your dealer for a check and repair. Neglecting to do so may cause fire.
- During thunderstorms, do not touch the connecting cables or the apparatus.
- Warning: To prevent spread of fire, keep candles or other open flames away from this product at all times.
 Mains plug is used as disconnect device and it should
- 25. Mains plug is used as disconnect device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected form the mains socket outlet completely.



Important Safety Information

CAUTION:

- To prevent direct exposure to laser beam, do not try to open the enclosure. Visible and invisible laser radiation when open and interlocks defeated. DO NOT STARE INTO BEAM.
- Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure.
- Danger of explosion if battery is incorrectly replaced.
 Replace only with the same or equivalent type.

Warning: Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

FCC Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The party responsible for compliance to these rules is: Toshiba America Information Systems, Inc. 9740 Irvine Blvd., Irvine, CA 92618. Ph: 1-800-631-3811

FII. 1-600-631-3611

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with

minimum distance 20cm between the radiator and your body.

This class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à

la norme NMB-003 du Canada.

WARNING: Changes or modifications to this unit not expressly approved by Toshiba, or parties authorized by Toshiba, could void the user's authority to operate the equipment.

On Placement

- Do not use this unit in places which are extremely hot, cold, dusty or humid.
- Do not restrict the air flow of this unit by placing it somewhere with poor air flow, by covering it with a cloth, or by placing it on bedding or carpeting.
- Be sure to remove the disc and unplug the AC power cord from the outlet before carrying the unit.

On Safety

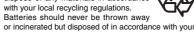
- Do not handle the AC power cord with wet hands and do not put your fingers or objects into the unit.
- When connecting or disconnecting the AC power cord, grip the plug and not the cord itself. Pulling the cord may damage it and create a hazard.
- When you are not going to use the unit for a long period of time, disconnect the AC power cord.

On Condensation

 When left in a heated room where it is warm and damp, water droplets or condensation may form inside the equipment. When there is condensation inside the unit, the unit may not function normally. Let the unit stand for 1-2 hours before turning the power on or gradually heat the room and allow the unit to dry before use.

On Recycling

• This unit's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance



local regulations concerning chemical wastes.



Products that earn the ENERGY STAR® prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.

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Supplied Accessories

I	Remote Control with Batteries (AAA x 2)x 1	
	Owner's Manualx 1	
	Quick Start Guidex 1	
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Symbols Used in this Manual

To specify for which media type each function is, we put the following symbols at the beginning of each item to operate.

Symbol	Description
	Description refers to BD-video and BD- RE / BD-R recorded in BDMV format
	Description refers to DVD-video
ØCD	Description refers to Audio CD / DTS-CD
AVCHD	Description refers to DVD-RW/-R with AVCHD files
МРЗ	Description refers to BD-RE/-R, DVD- RW/-R and CD-RW/-R
WMA	Description refers to BD-RE/-R, DVD- RW/-R and CD-RW/-R
JPEG	Description refers to BD-RE/-R, DVD- RW/-R and CD-RW/-R

If you do not find any of the symbols listed above under the function heading, the operation is applicable to all media

Trademark Information

BLOCKBUSTER name, design and related marks are trademarks of Blockbuster L.L.C. © All rights reserved. Netflix is a registered trademark of Netflix Inc. VUDU is a trademark of VUDU, Inc.

CinemaNow is a registered trademark of Best Buy, Inc.

YouTube is a registered trademark of Google, Inc. Pandora is a registered trademark of Pandora Media,

Inc

Picasa is a trademark of Google, Inc.



Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,226,616; 6,487,535; 7,392,195; 7,272,567; 7,333,929; 7,212,872 & other U.S. and worldwide patents issued & pending. DTS-HD, the Symbol, & DTS-HD and the Symbol together are registered trademarks & DTS-HD Master Audio I Essential is a trademark of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

DVD

"DVD" is a trademark of DVD Format / Logo Licensing Corporation.

x.v.Color

 $x.v. Color \, and \, x.v. Color \, logo \, are \, registered \, trademarks$ of Sony Corporation.

"AVCHD" and the "AVCHD" logo are trademarks of Panasonic Corporation and Sony Corporation.



HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

BDLIVE BLIVE BONUS VIEW™

"Blu-ray Disc™", "Blu-ray™", "BD-LIVE™", "Blu-ray 3D™" and "BONUSVIEW™" and the logos are trademarks of Blu-ray Disc Association.



DIGITAL PLUS

Manufactured under license from Dolby Laboratories. Dolby, Pro Logic and the double-D symbol are trademarks of Dolby Laboratories.

Plays Windows Media™

Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.



Oracle and Java are registered owners.

trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective

Features

Blu-ray Disc™

You can enjoy Blu-ray Disc™ which is capable of storing five times more data than a conventional DVD.

BD-Java

With some Blu-ray Disc[™] which support Java applications, you can enjoy the interactive functions such as games or interactive menus.

BD-Live™

BD-Live™ (BD-ROM version 2 Profile 2.0) that allows interactive functions to be used when this unit is connected to the Internet in addition to the BONUSVIEW function. The various functions differ depending on the disc.

Full high-definition video playback

Watch movies in the highest picture quality available for your HDTV. This unit offers full high-definition video playback up to 1080p resolution for an amazing viewing experience. A highly detailed picture and increased sharpness delivers a more true-to-life picture.

DVD Upconversion for enhanced picture quality

Your current DVD will look even better than before thanks to video upconversion. Upconversion will increase the resolution of standard definition DVD to high definition up to 1080p over an HDMI connection. The picture will be less jagged and more realistic for a near high-definition experience.

Enjoy your content on different kinds of media

Full backwards compatibility with Blu-ray Disc[™], DVD and CD ensures that you can continue to enjoy your current audio-video collection. Additionally, you can view JPEG digital pictures or listen to MP3 or Windows Media[™] Audio music files.

PIP (BONUSVIEW™)

Some BD-videos have the PIP function which enables you to display the secondary video in the primary video. You can call up the secondary video by pressing **BONUSVIEW** whenever the scene contains the secondary video.

Pop-up menu

Some BD-video have pop-up menu which is a navigation menu that can be called up and be operated on the TV screen without interrupting the playback. You can call up the pop-up menu by pressing **POP/TOP or MENU**. Contents in the pop-up menu vary depending on the disc.

Playing back AVCHD files

This unit supports playback of AVCHD format files (new format for high definition video camcorders) recorded on disc. Your high definition personal archive is playable in HD quality.

x.v.Color®

This unit supports playback of video contents on discs recorded with "x.v.Color" technology. To watch this video content with the "x.v.Color", a TV or other display device supporting both video image reproduction using the "x.v.Color" standard and capable of manually switching its color setting is required. Please refer to the owner's manual of your display device for further information.

Blu-ray 3D Feature

This product can play 3D contents through an HDMI cable.

To implement the 3D effect, connect a 3D device (3D-compliant AV receiver, 3D-compliant TV) to the product using an HDMI cable, and play the 3D content while wearing 3D vision glasses.

Easy and simple connection to your HDTV via HDMI®

Connect this unit to your HDTV with one single HDMI (High-Definition Multimedia Interface) cable. It is recommended to use a High Speed HDMI Cable for better compatibility. The high definition video output signal will be transferred to your HDTV without conversion to analog signals, so you will get excellent picture and sound quality.

Thanks to other multiple outputs, you can also easily connect to your home theater system or amplifier.

HDMI® CEC (Consumer Electronics Control)

This unit supports HDMI CEC, which allows integrated system control over HDMI and is part of the HDMI standard.

This function may not work properly on some devices.

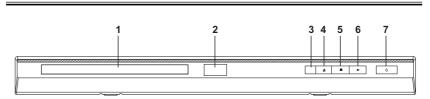
HDMI 1080p/24F output (Blu-ray Disc™ only)

This unit is equipped with a feature which can provide the smooth movement in the playback of film originated material with the frame rate of 24 frames per second with progressive scan. (Available only when the TV is connected by an HDMI cable and compatible with 1080p/24F frame input.)

Copyright protection system

To play back the digital video images of a Blu-ray Disc[™] / DVD via an HDMI connection, it is necessary that both the unit and the TV (or an AV amplifier) support a copyright protection system called HDCP (highbandwidth digital content protection system). HDCP is copy protection technology that comprises data encryption and authentication of the connected AV device. This unit supports HDCP. Please read the operating instructions of your TV (or AV amplifier) for more information.

Front Panel



1. Disc tray

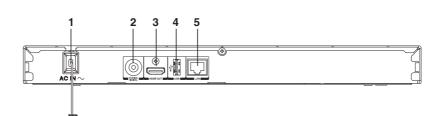
- 2. Power indicator
- 3. Remote sensor
- 4. OPEN/CLOSE button
- 5. STOP button

6. PLAY ► button

7. POWER button

• Press to turn on the unit, or to turn the unit into the standby mode. (To completely turn off the unit, you must unplug the AC power cord.)





1. AC power cord

- Connect to a standard AC outlet to supply power to this unit.
- Unplug this cord from the AC outlet to completely turn off the unit.

2. COAXIAL DIGITAL AUDIO OUT jack

- Use to connect an AV receiver / amplifier, Dolby Digital / DTS decoder or other device with a coaxial digital audio input jack using a coaxial digital audio cable.
- 3. HDMI OUT jack
 - Use to connect a TV with an HDMI compatible port via an HDMI cable.
 - * HDMI connection is required. Cables are not included. Analog connection is not supported.

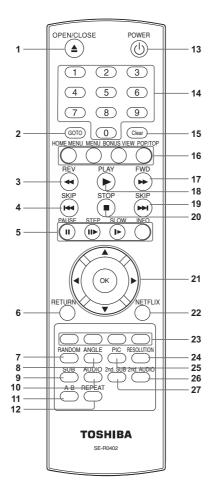
4. USB port

- Use to connect a USB flash drive/wireless LAN adapter (not included).
- 5. LAN terminal
 - Use to connect network equipment with a LAN cable.

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Remote Control

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No.	Item	Description				
1		Press to open or close the disc tray.				
2	GOTO	Press to display the search menu.				
3	REV ◄	During playback, press to fast reverse the playback.				
4	SKIP I ⊲ ⊲	 During playback, press once to return to the beginning of the current title, chapter, track or file. During playback, press twice to return to the previous title, chapter, track or file. During the JPEG playback, press to return to the previous file. 				
	PAUSE	Press to pause playback.				
	STEP II >	Press to advance one frame.				
5	SLOW	Press to play back the disc in slow motion.				
	INFO	Press to display disc information.				
6	RETURN	Press to return to the previous menu.				
7	RANDOM	Press to turn random function on or off for Audio CD, MP3 or WMA disc.				
8	ANGLE	Press to select a viewing angle if multiple angles are available on the disc.				
9	SUB (SUBTITLE)	Press to display the subtitle menu.				
10	AUDIO	Use to select the audio mode.				
11	А-В	Press to play back a defined section between point A and B repeatedly.				
12	REPEAT	Press to toggle between various repeat modes.				
13	POWER പ്ര	Press to turn on the unit, or to turn the unit into the standby mode. (To completely turn off the unit, you must unplug the power cord.)				

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No.	Item	Description			
14	Number buttons	 In playback mode, press GOTO, then press the number buttons to enter a title, chapter, track, time or file number. In menu mode, press to enter the parental code password. 			
15	CLEAR	Press to clear an input error.			
	HOME MENU	Press to display the Connected in home menu.			
	MENU	Press to display disc menu.			
16	BONUSVIEW	Press to switch picture-in- picture feature on or off (only applicable to BD-video which supports the PIP function).			
	РОР/ТОР	 During Blu-ray Disc playback, press to open a menu that lets you control Blu-ray Disc playback. During DVD playback, press to open the DVD menu (if available). 			
17	FWD ►►	During playback, press to fast forward the playback.			
18	PLAY ►	Press to start playback or resume playback.			
19	SKIP ►►I	 During playback, press to skip to the next title, chapter, track or file. During the JPEG playback, press to go to the next file. 			
20	STOP	Press to stop playback.			
21	▲/▼/◀/►	Press to select items or settings.			
21	ок	Press to confirm or select menu items.			
22	NETFLIX	Press to use Netflix service directly. (Make sure your Blu- ray Disc [™] player is correctly connected to the internet and network settings are properly configured.)			
23	RED / GREEN / BLUE / YEL- LOW	 Press to select items on some Blu-ray Disc™ contents. When file list / thumbnail list is shown, press to switch between pages. 			
24	RESOLUTION	Press to select the video resolution in full stop mode.			

25	PIC	In playback mode, use to adjust picture quality according to your preference (Actual effect to picture may vary depending on TV.):				
		 E.P.M (Enhanced Picture Mode): The picture is sharper with enhanced color. Sharpness 				
26	2nd. AUDIO	In PIP mode, press to turn the audio for the secondary video on or off.				
27	2nd. SUB (SUBTITLE)	In PIP mode, press to turn the subtitle for the secondary video on or off.				

Installing batteries

Install the batteries (AAAx2) matching the polarity indicated inside battery compartment of the remote control.

Open the cover.



2 Insert batteries.



Make sure to match the + and - on the batteries to the marks indicated in the battery compartment.

3 Close the cover.

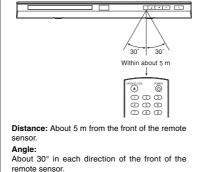
Caution: Never throw batteries into a fire.

- Notes: • Do not mix different battery types or combine used batteries with new ones
- Do not mix unerent battery types or combine used batteries with new ones.
 If the remote control does not operate correctly, or if the operating range becomes reduced, replace both batteries with new ones.
 If the batteries are dead or if you will not be using the remote control for a long time, remove the batteries.
- If the batteries are dead or if you will not be using the remote control for a long time, remove the batteries to prevent battery acid from leaking into the battery compartment.

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Operating with the remote control

Point the remote control at the remote sensor and press the buttons.



Do not expose the remote sensor of the Blu-ray Disc™ player to a strong light source such as direct sunlight or other illumination. If you do so, you may not be able to operate the Blu-ray Disc[™] player via the remote control.

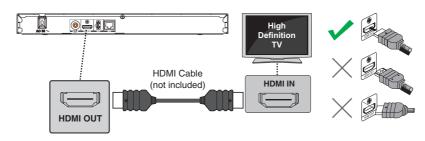
Notes:

- · Direct the remote control at the remote sensor of the Blu-ray Disc[™] player.
- When using the remote control, press the buttons at intervals of about 1 second to ensure the correct mode of operation.
- Do not drop or give the remote control a shock.
- Do not leave the remote control near an extremely hot or humid place.
- · Do not spill water or put anything wet on the remote control.
- Do not open the remote control.
- · If the remote control is not going to be used for a long time, remove the battery to avoid damage caused by battery leakage corrosion.

Connections

Connecting to a TV using an HDMI® cable

This connection provides better picture quality and supports up to 1080i/1080p, 1080p/24F resolution. Connect a HDMI cable from the HDMI output jack on this product to the HDMI input jack on the TV.



Notes:

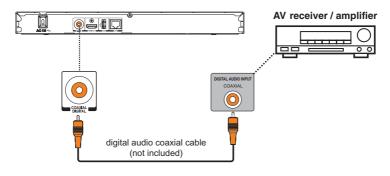
- To enjoy the viewing of 3D content, an HDMI connection with High Speed HDMI cable is required. HDMI connection is required. Cables are not included. Analog connection is not supported. Do not tilt the connector when inserting it into the HDMI jack, and make sure the shapes of the jack and the • connector are matched. •
- When using a non-HDCP compatible TV, the image will not display properly. An HDMI cable carries both video and audio signals. If you want to use TV speakers, you do not need to make an additional audio connection if you are using an HDMI cable. .

Connections

Connecting to a digital amplifier/AV receiver

Route the sound from this player to other device to enhance audio output.

- Connect a coaxial cable from the COAXIAL DIGITAL jack on this product to the COAXIAL jack on the device.
- If your AV receiver or amplifier has an HDMI jack, you can also connect the HDMI cable to HDMI IN jack on your AV
 receiver or amplifier.

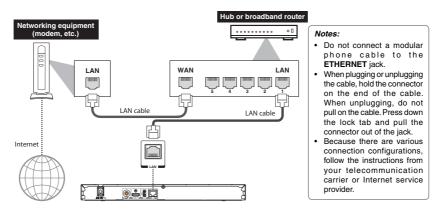


Connecting to network

- Your Blu-ray Disc[™] player can be connected to your home network:
- By connecting an Ethernet cable to the ETHERNET jack on the rear of your player and to a wired hub or router. Using
 a wired network provides the best performance, because the attached devices connect directly to the network and
 are not subject to radio frequency interference.

Connecting your player to a wired router

 Connect an Ethernet cable (CAT5 or better with RJ45 connector) to the ETHERNET jack on the back of your player and to an Ethernet jack on a hub or broadband router.



Connections

Connecting your player to a wireless access point or router (Need the optional Wi-Fi unit which is sold separately)

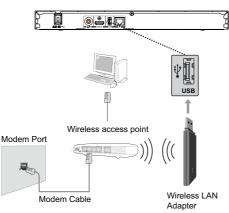
Your Blu-ray Disc[™] player can also be connected to network with a Wireless access point.

- A wireless AP/IP router is required to make a wireless network connection. Connect the wireless LAN adapter to the USB port on the rear panel of the Blu-ray Disc[™] Player, and set the wireless network options.
 After the Wi-Fi device is inserted into the USB port, press ▲ / ▼ to select "Network" from Settings, and press OK to
- After the Wi-Fi device is inserted into the USB port, press ▲ / ▼ to select "Network" from Settings, and press OK t enter.

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Notes:

(For detailed information, please refer to the user guide for WLM-10UB1 or WLM-10NB1.)



- This unit is compatible with TOSHIBA's Wireless LAN Adapter only. Model name: WLM-10UB1 or WLM-10NB1
- You must use a wireless IP sharer that supports IEEE 802.11 a/b/g/n. (n is recommended for stable operation of the wireless network.)
- Wireless LAN, in its nature, may cause interference, depending on the use condition (AP performance, distance, obstacle, interference by other radio devices, etc.).
- Set the wireless IP sharer to Infrastructure mode. Ad-hoc mode is not supported.
- When applying the security key for the AP (wireless IP sharer), only the following is supported.

1) Authentication Mode : WPAPSK, WPA2PSK 2) Encryption Type : WEP, TKIP, AES

 For models without built-in Wi-Fi®, BD-Live™ is only supported via Ethernet so when using single USB port for internet access, BD-Live™ will not be available.

Connecting a USB flash drive

A USB flash drive provides an additional memory to software upgrade and enjoy BD-Live™ bonus content. You can also enjoy playing back MP3/WMA/JPEG files stored in the USB flash drive.

Inserting a USB flash drive into the USB port on the back of Blu-ray Disc[™] player until it clicks.

Notes:

- Connect only a USB flash drive to the USB port on this product.
 If you cannot easily insert the USB flash drive, you may have inserted it incorrectly. Try to turnover the device and then insert again
- again. • Do not remove the USB flash drive during playback.
- BD-Live™ Access to BD-Live™ requires use of USB flash drive (not included) installed in the USB port. For additional information regarding the access to BD-Live™, see page 21 of the manual.
 TOSHIBA does not guarantee 100% compatibility with all USB
 - flash drives.

CAUTION: If you want to enjoy BD-LiveTM bonus content, you should connect a USB flash drive to USB port, and an Ethernet cable to the ETHERNET jack on the back of your player and to an Ethernet jack on a hub or broadband router.

USB Flash Drive

Information on Playback

Before you start playing back a disc, read the following information.

Playable Discs and Files

This unit is compatible to play back the following discs / files.

To play back a disc / file, make sure that it meets the requirements for region codes and color systems as described below. You can play back discs that have the following logos.

Other disc types are not guaranteed to play back.

Playable discs	Logos			
Blu-ray Disc [™] - BD-ROM (single / dual layer) - BD-RE (single / dual layer) (Recorded in BDMV format) - BD-R (single / dual layer)(Re- corded in BDMV format) (Un- closed discs may not be played back.)	Б іцчау Діяс			
DVD-ROM	VIDEO			
DVD-RW				
DVD-R				
CD-DA (audio CD)				
CD-RW	COMPACT DISC MCTrat Auglo ReWritable ReWritable			
CD-R	COMPACT DISC COMPACT DISC COMPACT DISC DISC ECCOTCAL D ECCOTCAL D			
DTS-CD	-			

Playable files	Media
AVCHD	DVD-RW/-R
MP3	
Windows Media [™] Audio	BD-RE/-R, DVD- RW/-R, CD-RW/-R
JPEG	

This unit cannot playback the disc contents protected by Windows Media™ Digital Rights Management (DRM).

Unplayable Discs and Files

- The following discs will not be played back in this unit. CD-ROM
- CD-I (compact disc-interactive)
- DVD-RAM
- VSD (video single disc)
- DVD-audio HD DVD
- - VIDEO CD
 - Unfinalized disc
 - SACD
 - Blu-ray Disc[™] / DVD containing DivX[®] files. Blu-ray Disc[™] / DVD hybrid disc (played back as a BD-
 - video only) Blu-ray Disc™ that contains AVCHD files
 - . DVD-RW/-R recorded in non compatible recording format.
 - Super Audio CD Only the sound on the CD layer can • be heard. The sound on the high-density Super Audio CD layer cannot be heard.
 - Playability of dual discs are not guaranteed. Multi session disc •
 - Multi border disc

Region Codes

This unit has been designed to play back BD-video with region "A" and DVD-video with region "1" or "ALL". You cannot play back BD-video or DVD-video that are labeled for other regions. Look for the symbols on the right on your BD-video or DVD-video.

If these region symbols do not appear on your BD-video or DVD-video, you cannot play back the disc in this unit. The letter or number inside the globe refers to region of the world. A BD-video or DVD-video labeled for a specific region can only be played back in the unit with the same region code.



DVD-video

Color System

BD-video and DVD-video are recorded in different color systems throughout the world. The most common color system is NTSC (which is used primarily in the United States and Canada).

Structure of Disc Contents

The contents of Blu-ray Disc™ / DVD / AVCHD are generally divided into titles. Titles may be further subdivided into chapters.

•	Blu-ray I	Disc [™] / DVD	/ AVCHD —	
	e1 —	+	title 2	
chapter 1	chapter 2	chapter 1	chapter 2	chapter 3
	<u>à</u>			

Audio CD is divided into tracks.

4		audio CD		
track 1	track 2	track 3	track 4	track 5
M \sim	\sim 1 L L	$M_{\rm c}$	\sim 1 ${ m mm}$	$\mathbb{N}\mathbb{I}^{\sim}$

Data discs or USB flash drives containing MP3 / WMA /JPEG are divided into folders, and the folders are subdivided into files.

— MP3 / WMA / JPEG—

← fold file	← folder (group) 1 file 1 file 2			file			group) le 4		ile 5
י נוון	\sim	<u>∽ ≀ת</u>	ľ	177	J ~	11	<u>ا</u> ا~	٦١.	~
69	9	\$,,		Az,	ΨÅ	×			<u>N</u> P

Basic Playback AVCHD OUT

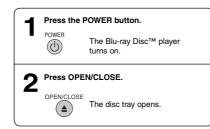
Preparations

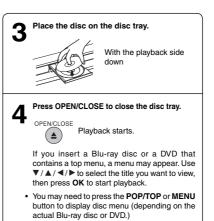
· When you want to view a disc, turn on the TV and select the video input connected to the Blu-ray Disc™ player.

CAUTION:

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Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.





To start playback in stop mode

Press > PLAY.

To pause playback (still mode) Press II PAUSE during playback.

To resume normal playback, press the PLAY button. The sound is muted during still mode.

To stop playback

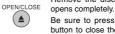
Press **STOP**. The home menu is displayed. For Blu-ray discs, press \mathbf{V}/\mathbf{A} to select BD-ROM, then press **OK** to start playback at the beginning of the disc.

For DVDs/audio CDs, press > PLAY to resume normal playback.

- · Depending on the disc, playback starts where it
- If you press STOP twice, playback stops completely. To stat playback again, press ▶ PLAY. Playback starts at the beginning of the disc.

To remove the disc Press OPEN/CLOSE.

Remove the disc after the disc tray



Be sure to press the **OPEN/CLOSE** button to close the disc tray after you

remove the disc. To turn the power off

Press **POWER** button to turn the unit off.

Variable Speed Playback

You can play discs at various speeds, and resume playback from the location where you stopped playback.

Playing in fast reverse / forward directions AVCHD OUD OCD

· · · · · · · · · · · · · · · · · · ·	
Press ◀◀ or ▶▶ during playback.	
FWD : Fast forward playback	
EV : Fast reverse playback	
Each time you press this button, the fast-forw or fast-reverse speed changes in the follow sequence:	
Fast x 2 \rightarrow Fast x 4 \rightarrow Fast x 8 \rightarrow Fast x 16	-
Fast x 32 \rightarrow Fast x 64 \rightarrow Fast x 128.	
To resume normal playback Press ► PLAY.	
Notes:	
 The Blu-ray Disc[™] player mutes sound and sul 	otitles

during reverse and forward scan. The playback speed may differ depending on the disc.

Playing frame by frame SED AVCHD

Press III> during still playback.

Each time you press this button, the picture advances one frame.

To resume normal playback

Press PLAY.

Note: The sound is muted during frame by frame playback.

Playing in slow motion AVCHD

Press Induring playback.

Each time you press this button, the slow- (\mathbf{b}) motion speed changes in the following sequence: Slow x 1/2 → Slow x 1/4 → Slow x 1/8

To resume normal playback

Press PLAY.

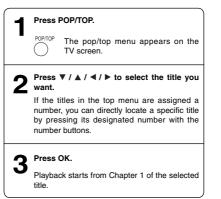
Notes:

- The sound is muted during slow-motion playback. · 3 speeds are available.

Locating a Desired Section

Normally, Blu-ray discs and DVDs are divided into titles, and the titles are sub-divided into chapters. Audio CDs are divided into tracks. You can quickly locate any specific title, chapter, or track.

Locating a title using the pop/top menu



Locating a specific chapter or track

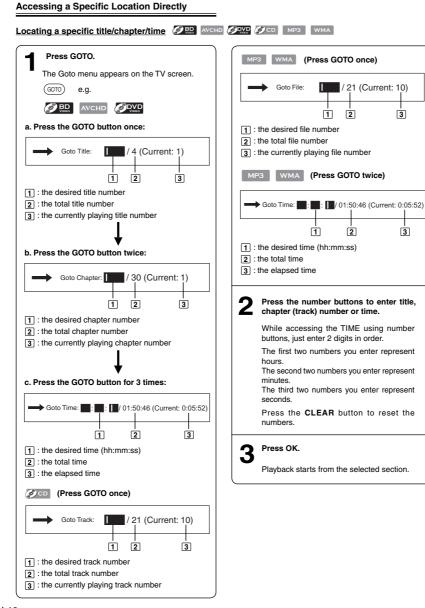
Press I a or I repeatedly to access the chapter or track number you want.

Playback starts from the selected chapter or track.

Playback starts from the beginning of the current chapter or track. When you press twice in quick successions, playback starts from the beginning of the preceding chapter or track.

To locate succeeding chapters or tracks.

Note: Some titles may not display chapter numbers.



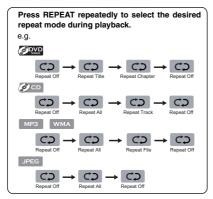
| 16

Playback

Repeating a Title, Chapter, Track or Specific Segment

Repeating a title, chapter or track

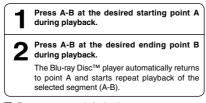
STREE STREET STREET WMA



Notes:

- The repeat setting will be cancelled when you stop playback.
- The chapter, title or track repeat will be cleared when moving to another chapter, title, track / file or folder.
- Repeat playback does not function during A-B repeat playback.
- Chapter and title repeat are not available with some scenes.
- When the repeat setting is set for a MP3 or WMA folder (file), the repeat setting will be cancelled if you select other MP3 or WMA folder (file) to playback.

Repeating a specific segment



To resume normal playback

Press A-B until CO is displayed.

Notes:

- Some discs may not permit A-B repeat operation.
 You can specify a segment only within the current.
- You can specify a segment only within the current title or track.
- You cannot set the A-B repeat function for a segment that includes multiple camera angles.
- A-B repeat does not function during chapter, title, track or all repeat playback.

Playing in a Random Order

Playing tracks or files in a random order

🖉 С МРЗ WMA

Press RANDOM repeatedly to select Random ON during playback.

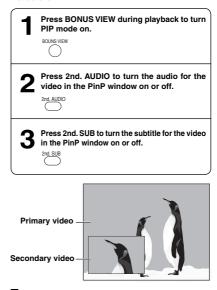
Once you turn RANDOM function on, the RANDOM tindicator will be activated and the system will play all files in a random sequence.

To resume normal playback

Press RANDOM repeatedly until "Random Off" is displayed.

PIP (BONUSVIEW™) Setting Ø

Some Blu-ray discs have the PIP function which enables you to display the secondary video in the primary video. You can call up the secondary video by pressing BONUS VIEW whenever the scene contains the secondary video. See the documentation that came with the disc for playback instructions.



To resume normal playback Press BONUS VIEW to turn off the PIP mode.

Note: PIP audio cannot be heard unless **Bitstream Mixed** has been selected on the Audio menu. For more information, see "Audio Setting" on page 23.

Camera Angle 🛛 🖉 🔛	Subtitle Selection 🖉 🖭 🖉 🕮
ome BD-video and DVD-video contain scenes which have een shot simultaneously from various angles.	During playback, press SUB.
1 During playback, press ANGLE. The selected angle will be displayed on the display bar at the top of the TV screen. Image: ▶ 01/03 Image: ▶ 01/03 The first digit indicates the current viewing angle, and the second digit indicates the total number of viewing angles.	Subtite ► 01/07 ENG PIP Subtite ► N/A In the example "01/07 ENG", "01" indicates the currently selected subtitle. "07" indicates the total number of subtitles. "ENG" indicates the subtitle language. Press ►, then use ▼/▲ to select the desired angle.
Z angle.	Displaying On-screen Information
Audio Selection 🖉 🕮	You can check information about the current disc
Audio Selection I During playback, press AUDIO.	Image: AvcHD Image: Color MP3 WMA JPE You can check information about the current disc pressing INFO. Image: Color MP3 WMA JPE Image: Color MP3 Title 1 Chapter 1/25 Image: Color MP3 Image: Color MP3 <t< td=""></t<>
1 During playback, press AUDIO.	You can check information about the current disc pressing INFO.
1 During playback, press AUDIO. Image: Audio → 01/03 ENG Dolby TrueHD Image: PIP Audio → 01/03 ENG Dolby TrueHD In the example "01/03 ENG Dolby TrueHD", "01" indicates the currently selected audio channel. "03" indicates the total number of audio channel. "ENG" indicates the audio language. "Dolby TrueHD" describes the currently selected	You can check information about the current disc pressing INFO.
1 During playback, press AUDIO. Image: Constraint of the state of	You can check information about the current disc pressing INFO.

File: 4/13 flower.jpg

Off Pause

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____|

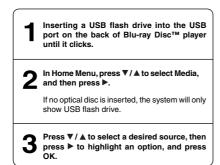
_| |

Playing AVCHD/MP3/WMA/JPEG Files Settings: This option enables you to define Slide Show Effects (None, Horizontal Scroll, Fade and Shutter) and Slide Show Delay (5 Seconds, 2 Seconds, 1 Second, No Delay, 10 Seconds, 1 Seconds, 15 Seconds and 30 Seconds). After setting, press \forall to highlight Ok and then press **OK** to confirm. You can play AVCHD, MP3, WMA or JPEG files that have been recorded on a disc on the Blu-ray Disc™ player. Playing files on a data disc AVCHD MP3 WMA JPEG When you insert a data disc containing picture, music, or Slide Show Effects > None video files into your player, icons are added to the menu Slide Show Delay > No Delay to indicate that video, music, or picture files are available for playback. Ok Press OPEN/CLOSE to open the disc tray, place a disc that contains video/MP3/ Main Menu: Returns to the main menu. Previous Folder: This item only appears if your JPEG files. optical disc or USB flash drive contains several different picture folders. 2 In Home Menu, press ▼/▲ to select Media, and then press ▶, Start Slide Show: This option enables you to view picture (files) one after another automatically. If a USB flash drive containing music is inserted Browse Music: Goes back to Music folder. at the same time, the system will enter the source selection screen shown as below: Press ▼ / ▲ to select the desired photo, and Optical Disc then press OK to start playing. CD: Press REPEAT repeatedly to select the USB1 desired repeat mode. To play music files while viewing photos, If no USB flash drive is inserted, the system will 5 follow the following steps: only show optical disc. • Press RETURN. • Use \blacktriangledown / \blacktriangle to select Browse Music, then Press ▼ / ▲ to select a desired source and **3** Press \checkmark / \blacktriangle to select a desired source and then press \triangleright to highlight an option, and then press OK. press OK. · Select the desired track and press OK to start playing. (For example: selecting the Pictures) **6** To stop playing and return to the main menu, follow one of the steps described below: Pictures 1 Optical Dis • Press STOP. • Press RETURN. Press ◄, then use ▼ / ▲ to highlight Main Menu and then press OK to confirm. Settings Main Menu Start Slide Show Browse Music Now Play 2-3 $\fbox{1}$: defines the total number of files that a device contains. 2 : shows the currently playing file number. 3 : shows all pictures in thumbnail mode.

Playback

Using a USB Flash Drive

You can play MP3, WMA or JPEG files that have been stored on USB flash drives on the Blu-ray Disc[™] player. Operating a USB Flash Drive



For detailed operations, please follow the instructions in "Playing files on a data disc" on page 19 for details.

Removing the USB Flash Drive

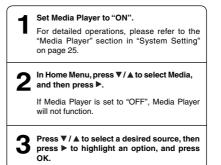
In stop mode, gently pull the USB flash drive out slowly.

Notes:

- If you cannot easily insert the USB flash drive, you may have inserted it incorrectly. Try to turnover the device and then insert again.
- Do not remove the USB flash drive during playback.

Using Media Player Function

Operating Media Player function



Notes:

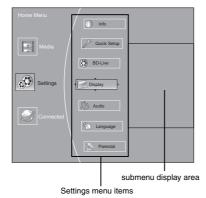
- Make sure your player is properly connected to the network before using Media Player. Furthermore, you need other Media Player servers in the network to see and/or hear contents.
- Do not remove the LAN connector during playback.

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You can change the default settings to customize performance to your preference.

General Operations

- 1. Press \blacktriangledown / \blacktriangle to select **Settings** in home menu while in full stop mode, the Settings menu appears 2. Press ► button, then use ▲ / ▼ button to select the
- setting options. 3. Press OK button.
- 4. Press ◀ or **RETURN** button to return to the previous menu



Info Menu

This menu displays the following information:

- Software Version
- Software Date
- Netflix ESN
- 1. In the main menu of **Settings**, press ► button, then use ▲ / ▼ button to select **Info** to display the version information on software and Netflix ESN.
- 2. Press ◀ or **RETURN** to go to the previous menu.

Performing Quick-Setup

- 1. In the main menu of **Settings**, press ► button, then use ▲ / ▼ button to select **Quick Setup**, and then press **OK** to confirm.
- 2. Press OK to perform Quick Setup.
- To exit the setup menu:
- Use ▼ button to highlight "No thanks. I'll go through the full setup menu later", and then press OK.
- 3. Follow the on-screen instructions to customize the following settings to your preference

- OSD Language Settings - (English/French/Spanish)
- Resolution
- (HDMI Auto/1080p/1080i/720p/480p/480i) **TV Aspect**
- (16:9 Wide/16:9 Pillabox/4:3 Pan and Scan/4:3 Letterbox)
- Optical Disc Auto Play (Disable/Enable)
- Screen Saver Duration
- (Off /5 Minutes/10 Minutes/ 20 Minutes/ 30 Minutes)

4. After setting, press OK to confirm and exit the setup. Note: If it is the first time for the player to start up or users restore all settings to factory defaults, the system will prompt you to perform Quick Setup. Repeat the steps described as above to complete the setup.

Using BD-Live[™] Features

Some (but not all) Blu-ray Disc™ discs contain additional features that are made available to players that are connected to the internet, and have additional memory added. These additional features may include things like: •

- the ability to download new movie trailers
- additional 'commentary' by actors and directors multiperson game play and chat

In order to access BD-Live[™] functions, the player must be properly configured for BD-Live internet access, and it must be equipped with additional memory.

Note: BD-Live[™] requires connection of a USB flash Note: BD-LIVe[™] requires connection of a USB flash drive of at least 1 GB (sold separately) to USB port. For models without built-in Wi-Fi[®], BD-Live[™] is only supported via Ethernet so when using single USB port for internet access, BD-Live[™] will not be available. Performance of interactive features may vary due to disc design or content, and may also require an always-on broadband internet connection. Firmware update may be required for some interactive features. Some features may require additional bandwidth.

- 1. In the main menu of Settings, press ► button, then use ▲ / ▼ button to select BD-Live, then press OK.
- 2. Press \blacktriangle / \blacktriangledown to select an option, and then press **OK**.
- 3. Use \blacktriangle / \blacktriangledown to select the desired setting, and then press OK to confirm.
- 4. Press ◀ to go to the previous menu.

BD-Live Internet Access:

- Limit Access Allows Internet access with valid BD-Live™ network access approval.
- Always Allow Access Always allows BD-Live Internet access
- Prohibit Access Never allows BD-Live Internet access



In order to set the player up for BD-Live Internet Access, perform the following steps:

- In the main menu of Settings, press button, then use
 ▲ / ▼ to select BD-Live, then press OK.
- Press ▲ / ▼ to select "BD-Live Internet Access", and then press OK.
- Use ▲ / ▼ to select the desired setting, and then press OK to confirm.
- Make sure that "Limit Access" or "Always Allow Access" is checked.
- Once the USB flash drive has been inserted, if there is not at least 100Mbyte of free space on the device, you should choose "Erase Blu-ray Storage" from the BD-Live setup menu.

Notes:

- Depending on your connection environment, it may take time to connect to the Internet or the Internet may not be connected
- When BD-Live™ function are used and the unit is connected to the Internet, you may be charged for this communication.
- Do not remove the USB flash drive when using the BD-Live™ function.

BD-Live Storage:

This option is used to tell the Blu-ray Disc[™] player whether or not to use an inserted USB flash drive to store BD-Live[™] content (movie trailers, additional scenes, etc.).

In order to add BD-Live™ memory for BD-Live Internet Access, insert a USB flash drive (1GB is recommended) into the USB port on the player.

Erase Blu-ray Storage:

If you choose **OK** to erase Blu-ray storage, all bookmarks and BD-Live[™] content saved in memory are deleted.

Display Setting

- In the main menu of Settings, press ► button to select Display, and then press OK to confirm.
- Press ▲ / ▼ to select an option, and then press OK.
 Use ▲ / ▼ to select the desired option, and then press
- OK to confirm your selection.
- Press ◄ to go to the previous menu.

HDMI Status:

This option displays the HDMI status. If an HDMI TV is connected, **Connected** appears. If an HDMI TV is not connected, **Disconnected** appears.

HDMI Preferred Format:

This option shows the best HDMI format for the connected TV. If HDMI is not pulled out, a composite image is not output.

* HDMI connection is required. Cables are not included. Analog connection is not supported.

Resolution:

You can define the video output resolution in this option.

Resolution
HDMI Auto
1080p
1080i
720p
480p
480i

Notes:

- Selecting a resolution the TV does not support could result in an unstable picture or loss of the picture. See the documentation that came with the TV to find the resolutions the TV supports.
- Only the HDMI output on your player supports 1080p video output at any frame rate.

TV Aspect:

16:9 wide, 16:9 Pillarbox, 4:3 Pan and Scan and 4:3 Letter Box are available for your choice.

Film Mode:

Movies are recorded on film at a rate of 24 pictures (frames) per second. Many of the movies on Blu-ray discs are placed on the discs at this frame rate. If your TV supports 24 frames per second, but you would prefer viewing the video at a higher frame rate, you should turn off Film Mode. **Off** selects a 60 frames/second output format.

Deep Color:

This option decides whether to turn off the Deep Color (color depth) setting for video signals output from the HDMI OUT jack.

Connecting the player and a TV that supports Deep Color allows more accurate color reproduction than when connecting it to a TV that does not support Deep Color. It is recommended to set this option **Off** if the picture is unstable or colors appear unnatural.

Bluray 3D Mode:

Select whether to play a Blu-ray Disc with 3D contents in 3D Mode.

Automatic: The 3D Blu-ray disc is played in 3D mode if your product detects a TV which supports it. It is played in 2D mode if your product detects a TV which can not support it.

Forced 2D: The 3D Blu-ray disc is played in 2D mode at all times. Select this option to view a picture without 3D effect or when a TV cannot support 3D Blu-ray discs.

Notes:

- If you or any viewer experiences the following symptoms or any other discomfort from viewing 3D video images, stop viewing and contact your health care provider:
- Convulsions, Eye or muscle twitching, Loss of awareness, Altered vision, Involuntary movements, Disorientation, Eye Strain, Nausea/Vomiting, Dizziness, Headaches or Fatigue
- Carefully read instructions provided with your display and/or 3D glasses before 3D viewing.
- If you want to enjoy a 3D content, connect a 3D device (3D compliant AV receiver or TV) to the product and wear a 3D glass before playing the 3D content.
- While watching the 3D video, all analogue component and composite signals will be blocked automatically.
- All 3D signals are output only using the HDMI cable and through the HDMI OUT port.
- As the video resolution in 3D play mode is fixed according to the resolution of the original 3D video, you can not change the resolution to your preference.
- You must use a high-speed HDMI cable for a proper output of the 3D signal.
- You can not use this product for switching a 2D content to 3D.

Audio Setting

The settings in the Audio menu will configure the Blu-ray Disc™ player's digital audio outputs (**HDMI** or **Coaxial**).

- 2. Press \blacktriangle / \checkmark to select an option, and then press **OK**.
- 3. Use ▲ / ▼ to select your preferred audio items, and then press **OK** to confirm your selection.
- 4. Press \blacktriangleleft to go to the previous menu.

PCM Downsampling:

If you don't have a surround sound receiver connected to the Blu-ray DiscTM player, you should leave the PCM downsampling to 48 kHz, and proceed to the next setup menu item.

If you have a surround sound receiver connected to the Bluray DiscTM player, and you have connected to the surround receiver via the Blu-ray DiscTM player's HDMI output, this setting has no effect on the audio going to the HDMI output of the player. Leave the PCM downsampling to 48 kHz, and proceed to the next setup menu item.

NOTE: Incorrectly setting the digital audio output's PCM sampling rate too high may result in unpredictable audio playback.

Digital Output:

- PCM Stereo Sets the output to PCM Stereo if you have not an audio receiver connected to your Blu-ray Disc[™] player or the audio receiver connected to Blu-ray Disc[™] player is not a 5.1/7.1 channel receiver.
- Bitstream HD Lets your player send Dolby TrueHD or DTS-HD MA bitstreams over HDMI (if your player is connected to a compatible HDMI audio receiver). If your player is not connected to a compatible HDMI receiver (for example, your player is connected directly to the TV, a compatible audio signal is automatically sent over the HDMI connection. With this setting, Blu-ray audio is limited to the soundtrack for the main movie (no PIP audio).
- Bitstream Legacy Sends a DTS or Dolby Digital bitstream from the disc over the HDMI connection.
 Blu-ray audio is limited to the soundtrack for the main movie (no PIP audio).
- Bitstream Mixed Sends a DTS or Dolby Digital bitstream over the HDMI or Coaxial connection. This mode is primarily intended for use when you want to hear both PIP audio and the movie audio.
- PCM 5.1 Sends a PCM audio signal of up to 5.1 channels over the HDMI connection.
- PCM 7.1 Sends a PCM audio signal of up to 7.1 channels over the HDMI connection.

Dynamic Range Control:

Dynamic Range Control means that you can allow the Bluray DiscTM player to make the loud parts of a movie's audio track quieter than they would be in the theatre, without making the dialog of the actors any quieter.

This would be useful, for instance, when you want to watch a movie in the evening when others might be sleeping.

NOTE: This setup menu item has no effect unless you have selected "Bitstream Mixed" in the Blu-ray Disc™ player's audio setup menu.

When Dynamic Range Control is set to **Off**, movie soundtracks are played with the standard dynamic range. When movie soundtracks are played at low volume or from smaller speakers, you can set Dynamic Range Control to **On**. Your player applies appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.

Selecting the "Auto" option turns on the Dynamic Range Control for all Blu-ray Disc[™] movie soundtracks except Dolby TrueHD. If you have selected a Dolby TrueHD track on the Blu-ray Disc[™] disc, the "auto" selection tells the Blu-ray Disc[™] player to only turn on dynamic range control if information embedded in the Dolby TrueHD sound track tells it to 6 so.

Stereo Downmix:

Select whether to downmix the multi-channel audio into fewer channels.

• Auto — Downmixes the multi-channel audio into the specific stereo that the connected equipment



supports.

- Stereo (LoRo) Downmixes the multi-channel audio into two channel stereo. Choose when the Blu-ray Disc™ player is connected to the equipment that does not support virtual surround function such as Dolby Pro Logic.
- Surround Encoded (LtRt) Downmixes the multichannel audio into surround compatible stereo. Choose when the Blu-ray Disc[™] player is connected to the equipment that supports virtual surround function such as Dolby Pro Logic.

Language Setting

- 1. In the main menu of **Settings**, press ►, then press ▲ / ▼ to select **Language**, and then press OK.
- 2. Press ▲ / ▼ to select OSD, Menu, Audio or Subtitle, and then press OK.
- 3. Use ▲ / ▼ to select your preferred language, and then press OK to confirm your selection.
- 4. Press ◀ to go to the previous menu.

OSD:

This option enables you to select the on-screen menu language.

Menu:

- This option lets you to select the disc menu language.
- Notes: • Not all languages are available on all discs.
- Most discs only have one menu language.

Audio:

You can choose the audio language from this option to your preference.

Notes:

- Not all languages are available on all discs.
- Some discs do not let you select the audio language using your player's menu. Instead, you have to select the audio language from the disc setup menu (the menu that appears after you insert the disc).

Subtitle:

You can customize your preferred subtitle language in this option.

Notes: • Not all languages are available on all discs.

- Some discs do not let you select the subtitle language using your player's menu. Instead, you have to select the subtitle language from the disc setup menu (the menu that anonare after you ispact the disc)
- that appears after you insert the disc).You can also select the subtitle language from the subtitle menu in the on-screen menu.

Parental Control

- In the main menu of Settings, press ▶, then press ▲ / ▼ to select Parental, and then press OK.
- Press ▲ / ▼ to select an option, and then press OK.
 Use ▲ / ▼ to select the desired option, and then press
- OK to confirm your selection.
- 4. Press ◀ to go to the previous menu.

Note: If Parental Control was previously turned On, you will be prompted to enter the parental control password before being allowed to change these settings. (See "Turning parental control on or off" for details.)

Selecting the parental country

Parental Country is fixed in USA.

Turning parental control on or off

- 1. In the main menu of **Settings**, press ▶, then press ▲ / ▼ to select **Parental**, and then press **OK**.
- 2. Press \blacktriangle / \blacktriangledown to select **Parental Control**, then press **OK**.
- 3. Press ▲ / ▼ to select On or Off, then press OK.
 4. Press ◄ to go to the previous menu.

o .

- Setting the parental control level
- In the main menu of Settings, press ▶, then press ▲ / ▼ to select Parental, and then press OK.
- 2. Press ▲ / ▼ to select Parental Level, then press OK.
- 3. Press ▲ / ▼ to select the rating level you want to block, then press OK. The rating and all higher ratings will be blocked. You can select:
 - 1 [Kid Safe] Suitable for all children.
 - 2 [G] General audiences.
 - 3 [PG] Parental guidance suggested.
 - 4 [PG-13] Not suitable for anyone under 13.
 - 5 [PG-R] Parental guidance recommended.
 - 6 [R] Not suitable for anyone under 17 unless supervised by a parent or adult guardian.
 - 7 [NC-17] Not suitable for anyone under 17.
 - 8 [Adult] All Blu-ray discs and DVDs can be played.
- 4. Press ◀ to go to the previous menu.

Setting the parental control password

- In the main menu of Settings, press ▶, then press ▲ / ▼ to select Parental, and then press OK.
- 2. Press ▲ / ▼ to select Parental Password, then press OK.
- Enter a 4-digit number for the parental password, then use ▼ to highlight Ok, and then press OK to confirm. If you forget your password, reset your player to the factory defaults. For more information, see "Restore factory defaults" on page 25.
- 4. Press ◀ to go to the previous menu.

System Setting

- 1. In the main menu of Settings, press ▶ button, then use ▲ / ▼ button to select System, then press OK.
- 2. Press \blacktriangle / \bigtriangledown to select an option, and then press **OK**.
- 3. Use \blacktriangle / \blacktriangledown to select the desired setting, and then press \mathbf{OK} to confirm.
- 4. Press ◀ to go to the previous menu.

Optical Disc Auto Play:

If **Enable** is selected, it will load data and play back automatically when you insert a Blu-ray disc. When **Disable** is selected and if you insert a Blu-ray disc, the disc you can select will be displayed on the Settings menu.

Media Player:

Media Player technology enables you to create an interoperability network with other devices for resource sharing based on a network.

Screen Saver Duration:

This Blu-ray Disc™ player has a screen saver feature that turns the screen black when your player is inactive. You can set the interval time you want your player to wait before activating the screen saver.

Note: The unit shuts down automatically in about thirty minutes if it remains idle and no activities are made.

CEC Support:

This option is used to allow the TV remote control to control certain functions of the Blu-ray Disc™ player; and for the Blu-ray Disc™ player to control certain functions of the TV.

On: Allow mutual control of devices through HDMI.

Off: Do not allow CEC control.

Notes:

- Not all TVs are compatible with your Blu-ray Disc™ player.
 The default setting is Off. Select On if CEC control is necessary.

Update Via Network:

This option displays the required storage space if the Blu-ray Disc[™] player is connected to internet for upgrade. For detailed upgrade operation, please refer to "**Upgrading Your Player's Firmware**" on next page.

Restore factory defaults:

Choose one of the options, then press \mathbf{OK} to pop up a dialog box, choose \mathbf{Ok} in the box, and then press \mathbf{OK} to confirm.

To apply the deactivation, please plug off the player after operating deactivation.

Actions	Response
Restore factory settings and deactivate all connected applications	All settings (including Parental Password) will be restored to the factory defaults and all connected applications will be deactivated.
Restore factory settings	Restores all settings (including Parental Password) to the factory defaults.
Deactivate all connected applications	Deactivates all connected applications
Deactivate Netflix	Deactivates the connected Netflix application
Deactivate YouTube	Deactivates the connected YouTube application
Deactivate VUDU	Deactivates the connected VUDU application
Deactivate Pandora	Deactivates the connected Pandora application
Deactivate Picasa	Deactivates the connected Picasa application
Deactivate Blockbuster	Deactivates the connected Blockbuster application
Deactivate CinemaNow	Deactivates the connected CinemaNow application

Network Connection Setting

Note: The option Wireless appears only while a wireless LAN adapter is inserted into the USB port.

Configuring a wired Internet connection

- 1. Press ∇ / A to select **Network** in stop mode, then press **OK**. Press ∇ / A to select **IP Mode**, then press **OK**.
- 2. Press ▼ / ▲ to select an IP mode. You can select:
 Manual Lets you manually configure network
 - settings, such as IP address, subnet mask, and gateway settings.
 Dynamic Uses DHCP to automatically obtain an
- IP address.

3. Press < or **RETURN** to go to the previous menu.

IP Settings	
Link Status	Link Down
MAC Address	00:23:18:75:b1:2b
IP Mode	Dynamic
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Gateway	0.0.0.0
Primary DNS	0.0.0.0
Secondary DNS	0.0.0.0
Apply Cancel	Network Test

Upgrading Your Player's Firmware

This player needs to stay up to date to make sure that you have the latest features available. This is done with a software update. You may periodically see a screen that prompts you to update your firmware. It is highly recommended that you apply all updates available to enhance and enjoy product features.

Automatic updates over the Internet

- Make sure that your player is successfully connected to the Internet. If new firmware is available, you will see a message prompting you to update your firmware. Follow the directions in the update program to complete the firmware undate procedure for the player
- the procedure for the player.
 Use ▶ / ◀ to highlight "OK", and then press OK. The software will begin downloading, and a status bar will appear on the TV screen.
- After the firmware update has completed successfully, a message will appear indicating the player will automatically turn itself off and restart.

Note: Never turn off the player during a firmware update process. Let the firmware update process finish.

Toshiba America Information Systems, Inc. will not be responsible for damage or malfunction caused to the player by an unstable internet connection or consumer negligence during firmware updates.

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Using the Connected Applications

Some models are equipped with the capability to watch movies over the internet.

Watching Movies with BLOCKBUSTER®

This Blu-ray Disc[™] Player enables you to use the following services provided by Blockbuster.

- 1. In Home Menu, press ▲ / ▼ to select Connected.
- 2. Press ▶, then press ▲/▼ to highlight Blockbuster, and then press OK to enter Blockbuster main menu.
 - Movies : Display movies.
 - TV Shows : Display TV Shows.
 - Find : Search for a desired movie or TV show by entering it manually.
 - My Library : Display a title that you bought or rented.
 - **My Favorites** : Display a title that has been added to My Favorites.
 - Configure : Activate or deactivate the Blu-ray Disc[™] Player.
 - Help : Get customer service contact information and check the current software version.
 - 3. If you don't have a Blockbuster account yet, visit www.blockbuster.com to create your account.
- 4. Use $\nabla / \land / \triangleright / \land$ to select the **Configure**, then press OK
- Use the number buttons on the remote control to enter the activation code that is created by the web site, then use
 the highlight Activate, and press OK to confirm.

 When the Blu-ray Disc[™] Player is activated, you will move to the Home page.
- Press ► / ◄ to select the Movies or TV Shows, then press OK.
- 7. Press $\nabla/ A / P / \blacktriangleleft$ to select the desired title, then press OK.
- 8. Press ► / ◄ to select the Rent or Buy, then press OK.
- Press ► / < to select the Submit Order, then press OK. If you want to play any of the titles that your bought, simply click Play Now.
- 10.Press ◀ to go to the previous menu.

Watching Movies with CinemaNow®

This Blu-ray $\mathsf{Disc}^{\mathsf{TM}}$ Player enables you to use the following services provided by CinemaNow.

- 1. In Home Menu, press \blacktriangle / \blacktriangledown to select Connected.
- Press ▶, then press ▲ / ▼ to highlight CinemaNow, and then press OK to enter CinemaNow main menu.
 - Movies : Display movies.
 - TV Shows : Display TV Shows.
 - IV Shows : Display IV Shows.
 - Search All : Search for a desired movie or TV show by entering it manually.
 - My Videos : Display a title that you bought or rented.
 - Wish List : Display a title that has been added to Wish List.
 - Settings : Activate or deactivate the Blu-ray Disc™ Player.
- Help: Get customer service contact information and check the current software version.
- 3. If you don't have a CinemaNow account yet, visit <u>www.</u> <u>cinemanow.com/bbactivate</u> to create your account.
- 4. Use $\bigvee / \land / \lor / \lor$ to select the **Settings**, then press OK.
- 5. Press the Activate.
- 6. Use the number buttons on the remote control to enter the activation code that is created by the web site, then use ▼ to highlight Activate, and press OK to confirm. When the Blu-ray Disc[™] Player is activated, you will move to the Home page.
- Press ► / ◄ to select the Movies or TV Shows, then press OK.
- Press ▼/▲/►/ ◄ to select the desired title, then press OK.
- 9. Press ► / ◄ to select the **Rent** or **Buy**, then press OK.
- 10.Press ► / ◄ to select the Submit Order, then press OK. If you want to play any of the titles that your bought, simply click Play Now.
- 11.Press ◀ to go to the previous menu.

Using the Connected Applications

Watching Movies with Netflix®

To use Netflix service, connect this player to your network, and make the network settings if they are not finished yet.

1. Launching Netflix movie

In Home Menu, press \blacktriangle / \forall to select Connected, then use >, and then press \blacktriangle / \forall to highlight "Netflix", and then press OK to enter.

2. Creating Netflix account If you are not a Netflix Member:

Select "no". Read the instructions displayed on the TV screen, and visit <u>http://www.netflix.com/toshiba</u> from your PC. Sign up to create your account, then select "I'm now a member".

Are you a member	of Netflix?
	yes =

If you are a Netflix Member: Select "Yes".

3. Activating Netflix player

To play streaming video via Netflix service, Netflix player needs to be activated. Read the instructions displayed on the TV screen, and visit <u>http://www.netflix.com/activate</u> on your PC. Sign in to your Netflix account, if necessary. Enter the activation code displayed on the TV screen.



4. Preparing Instant Queue

To play streaming video via Netflix service, Netflix player needs to be activated. Read the instructions displayed on the TV screen, and visit <u>http://www.netflix.com/activate</u> on your PC. Sign in to your Netflix account, if necessary. Enter the activation code displayed on the TV screen.

Now you can view Netflix streaming video.

After having activated Netflix player and prepared Instant Queue, movies and TV episodes in your Instant Queue

appear on the TV screen. Select your desired one using the remote control of the player. You can control Netflix streaming video with the following keys of the remote control of this player:

	To start playing movie. To pause playback while in PLAY mode.
	To stop playing and return to a list of movie titles.
	To pause playing movie. To start playing while in PAUSE mode.
•	To pause playing and open a list of scenes. Pressing further proceeds to the next scene.
•	To pause playing and open a list of scenes. Pressing further proceeds to the previous scene.
	To stop playing and return to a list of movie titles.
	To pause playing and open a list of scenes. Fast forward play starts.
••	To pause playing and open a list of scenes. Fast reverse play starts.
HOME MENU	To stop playing and return to Home Menu.
ОК	To pause playing of Trick play screen while in PLAY mode. To start playing the movie in case of during Trick play screen.

Note: Resolution of video streamed from Netflix varies depending on communication speed or bitrate of each content, etc.

Watching Movies with YouTube®

1. In Home Menu, press ▲ / ▼ to select Connected.

Press ▶, then press ▲ / ▼ to sheet connected.
 Press ▶, then press ▲ / ▼ to highlight YouTube, and then press OK to confirm.

3. Please enjoy any contents.

Using the Connected Applications

Listening to Music with Pandora®

Using an existing Pandora account

- 1. In Home Menu, press ▲ / ▼ to select Connected. Press ▶, then press ▲ / ▼ to highlight Pandora, and then press OK to confirm.
- 3. Select "I have a Pandora account" from the option
- list
- 4. Sign in with your test account.

Creating a new account on the Blu-ray Disc™ player

- 1. In Home Menu, press ▲ / ▼ to select Connected.
- 2. Press \blacktriangleright , then press \blacktriangle / \blacktriangledown to highlight Pandora, and then press OK to confirm.
- 3. Select "I am new to Pandora" from the option list.
- 4. You will be given an activation code. Use this activation code to generate a new account and link it to the Blu-ray Disc[™] player using a PC.

Creating a new Pandora account on your PC

Go to http://www.pandora.com/ to create a new account

Watching Movies with VUDU™

Creating a Vudu account on your player

- 1. In Home Menu, press \blacktriangle / \blacktriangledown to select Connected.
- 2. Press \blacktriangleright , then press \blacktriangle / \bigtriangledown to highlight Vudu, and then press **OK** to confirm.
- 3. Follow the instructions to create an account, it will ask for an email address.
- 4. Enter YOUR email address using the keyboard that appears on the screen. VUDU will then display a message on the TV "Sending you an email"

Creating a Vudu account on your PC

- 1. VUDU will send you an email with a hyper-link; click on the link.
- 2. In the Vudu page that comes up on your PC's browser after clicking the link, enter the e-mail and password of the owner of the account.
- 3. VUDU will then display a message "Enabling your device to view movies. The email message on your TV screen will disappear when done".
- 4. On your TV, you can now navigate to a Vudu movie, and 'buy' or 'rent' it.

Browsing Photos with Picasa®

Signing in with your account

To display photos in your web album on the screen, you need to sign in with your Picasa account.

- 1. In Home Menu, press \blacktriangle / \blacktriangledown to select **Connected**.
- 2. Press ▶, then press ▲ / ▼ to highlight Picasa, and then press OK to confirm.
- 3. Enter your user name using the virtual keyboard, and press OK while [OK] is selected.
- Enter the password using the virtual keyboard, and press OK while [OK] is selected. Your web album is displayed on the screen.

Creating a new Picasa account on your PC

Go to http://picasa.google.com/ to create a new account.

Troubleshooting & Maintenance

Troubleshooting

If the unit does not perform properly when operated as instructed in this manual, check the unit, consulting the following checklist.

Problem	Solution
No power	 Check if the AC cord is properly connected. Unplug the AC cord once, and wait for 5-10 seconds and then plug it in again.
No sound or picture	 Check if the connected TV is turned on. Check if the connections are made securely and correctly. Check whether the connected TV or other device supports HDCP. (This unit will not output a video signal unless the other device supports HDCP.) Check whether the output format of this unit (HDMI FORMAT) matches the supported input format of other connected device.
Distorted picture	 Sometimes a small amount of picture distortion may appear. This is not a malfunction. Connect this unit directly to the TV.
Completely distorted picture or black / white picture with Blu- ray Disc™ / DVD	- Make sure the disc is compatible with this unit.
No sound or distorted sound	 Adjust the volume. Check if speakers are connected correctly. Check the HDMI connections. Check the settings in "Audio" menu.
Picture freezes momentarily during playback	 Check the disc for fingerprints / scratches and clean with a soft cloth wiping from center to edge. Clean the disc.
Disc cannot be played back	Clean the disc. Ensure the disc label is facing up. Check if the disc is defective by trying another disc. Cancel the ratings control or change the control level. Insert a correct disc that can be played back on this unit.
No return to start-up screen when disc is removed	- Reset this unit by turning it off, then on again.
The unit does not respond to the remote control	 Aim the remote control directly at infrared sensor window on the front panel. Reduce the distance to infrared sensor window. Replace the batteries in the remote control. Re-insert the batteries with their polarities (+ / - signs) as indicated.
Buttons do not work or the unit stops responding	- To completely reset the unit, unplug the AC cord from the AC outlet for 5-10 seconds.
The unit does not respond to some operating commands during playback	- Operations may not be permitted by the disc. Refer to the instructions of the disc.

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Troubleshooting & Maintenance

Problem	Solution
The unit cannot read Blu-ray Disc™ / DVD/ CD	 Dew condensation may form inside the unit. Do not use this unit for at least a few hours until its inside gets dry. Wipe the dirt off the disc or replace the disc.
Angle does not switch	 The angle cannot be switched for Blu-ray Disc[™] / DVD which do not contain multiple angles. In some cases multiple angles are only recorded for specific scenes.
Playback does not start when the title is selected	- Check the settings in "Parental" menu.
The password for rating level has been forgotten	 If you forget your password, reset your player to the factory defaults and your forgotten password will be cleared. For more information, see "Restore fac- tory defaults" on page 25.
Cannot connect to the network	 Check if the LAN cable connection is properly made. Turn on the modem or broadband router. Check if the broadband router and/or modem is correctly connected. Check the "Network Connection Setting".
Cannot connect to the network while my PC is connected to the network	 Check the content of your Internet service contract to see if your Internet service provider prevents multiple terminals connecting at the same time.
Cannot use the BD-Live™ function	- Use a USB flash drive with enough space.

Notes:

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this manual for details on correct operations.
- Some functions are prohibited on some discs.

Maintenance

Servicing

- · Please refer to relevant topics on "Troubleshooting & Maintenance" before returning the product.
- If this unit becomes inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power plug, and please call our helpline to locate an Authorized Service Center.

Cleaning the cabinet

Never use a solvent, thinner, benzene or alcohol to clean the unit. Do not spray insecticide liquid near the unit. Such chemicals may discolor the surface or damage the unit.

Cleaning discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center to out. Do not wipe in a
 circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analog records.

Cleaning the disc lens

If this unit still does not perform properly although you refer to the relevant sections and to "Troubleshooting" in this
manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection
and cleaning of the laser optical pickup unit.

Disc handling

- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
- Always store the disc in its protective case when it is not used.
- Note that discs with special shapes (heart-shaped discs, octagonal discs, etc.) cannot be played back on this unit. Do not attempt to playback such discs, as they may damage the unit.

IR signal check

If the remote control is not working properly, you can use a digital camera (including a cellular phone with built-in camera) to see if it is sending out an infrared signal.

Glossary

Analog Audio

An electrical signal that directly represents sound. Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound.

Aspect Ratio

The width of a TV screen relative to its height.

Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as it is high).

AVCHD

AVCHD is a new format for high definition video camcorders which can record and play high-resolution HD images.

BD-Java

With some Blu-ray Disc[™] which support Java applications, you can enjoy the interactive functions such as games or interactive menus.

BD-Live™

BD-Live is a BD-video (BD-ROM version 2 Profile 2.0/ Profile 1.1) which contains new functions (e.g. Internet connection), in addition to the BONUSVIEW function.

Blu-ray 3D™

Blu-ray 3D[™] is a BD-video (BD-ROM version 3 Profile 5.0)which contains 3D view function, in addition to the BD-Live/BONUSVIEW function.

Blu-ray Disc™ (BD)

Blu-ray Disc[™] is a next generation optical video disc which is capable of storing much more data than a conventional DVD is. The large capacity makes it possible to benefit from the features such as high-definition videos, multichannel surround sounds, interactive menus and so on.

Chapter

Just as a book is split up into several chapters, a title on a BD-video or DVD-video is usually divided into chapters.

Component Video Output

Each signal of luminance (Y) and component $(P_g/C_g, P_{r'}/C_g)$ is independent to output so that you can experience picture Color as it is. Also, due to compatibility with progressive video (525p/480p), you can experience higher-density picture than that in interlace (525i/480i).

Digital Audio

An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analog-todigital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers.

DNS Server

A server which translates Internet domain names into IP addresses.

Dolby[®] Digital

The system to compress digital sound developed by

Dolby Laboratories. It offers you sound of stereo (2 ch) or multi-channel audio.

Dolby[®] Digital Plus

Dolby Digital Plus is the next generation digital audio compression technology developed as an extension to Dolby Digital. Blu-ray Disc supports 7.1 multi-channel surround sound output.

Dolby[®] TrueHD

Dolby TrueHD is a lossless coding technology developed for next generation optical discs. Blu-ray Disc supports 7.1 multi-channel surround sound output.

<u>DTS</u>®

DTS is a multi-channel surround sound system. By connecting to DTS decoder, you can enjoy movie dynamic and realistic sound like movie theater. DTS surround sound technologies were developed by DTS, Inc.

DTS-HD®

DTS-HD is a lossless coding technology developed as an extension of the original DTS Coherent Acoustics format. Blu-ray Disc supports 7.1 multi-channel surround sound output.

Gateway

IP Address of the electronic devices (such as router) which provide Internet access.

HDMI (High-Definition Multimedia Interface)

A digital interface between audio and video source. It can transmit component video, audio, and control signal with one cable connection.

<u>Hub</u>

A device used for connecting multiple device to the network.

IP Address

A set of numbers which are assigned to devices participating in a computer network.

JPEG (Joint Photographic Experts Group)

JPEG is a method of compressing still picture files. You can copy JPEG files on BD-RE/-R, DVD-RW/-R or CD-RW/-R from a computer and play back the files in this unit.

LAN (Local Area Network)

A group of computer networks covering a small area like a company, school or home.

Local Storage

A storage area of sub contents for playing virtual packages on BD-video.

MP3 (MPEG audio layer 3)

MP3 is a method of compressing files. You can copy MP3 files on BD-RE/-R, DVD-RW/-R or CD-RW/-R from the computer and play back the files on this unit.

Glossary

PCM (Pulse Code Modulation)

The most common system of encoding digital audio, found on CD and DAT. Excellent quality that requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (CD, MD and DAT) and AV amplifiers with digital inputs, this unit can convert Dolby Digital, DTS, and MPEG audio to PCM.

Proxy Server

Proxy server is a server which acts as an intermediary between a workstation user and the Internet to ensure security.

Region Code

Regions associate discs and players with particular areas of the world. This unit will only play back discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

Router

A networking device which distinguishes the IP address assigned to each device and routing and forwarding information in the computer network.

Sampling Frequency

Specifications

The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality.

Subnet Mask

A mask which is used to determine what subnet an IP address belongs to.

<u>Title</u>

A collection of chapters on BD-video or DVD-video.

Track

Audio CD use tracks to divide up the content of a disc. The BD-video or DVD-video equivalent is called a chapter. See also "Chapter".

Virtual Package

The function which copies data to other media (local storage) from the Internet and play the secondary video, secondary audio and the subtitle at the same time. The method of the playback varies depending on discs.

Windows Media™ Audio

Windows Media[™] Audio is the audio compressing technology developed by Microsoft. You can copy Windows Media[™] Audio files on BD-RE/-R, DVD-RW/-R or CD-RW/-R from a computer and play them back on this unit.

x.v.Color

"x.v.Color" is a promotion name given to the products that have the capability to realize a wide color space based on the xvYCC specifications and is a trademark of Sony Corporation.

	General
Signal system	NTSC color
Power requirements	120 V AC, 60 Hz
Power consumption	15 W
Dimensions (width x height x depth)	360 × 36 × 192.7 mm
Weight	1.02 kg
Operating temperature	41°F (5°C) to 95°F (35°C)
Operating humidity	Less than 80 % (no condensation)

	Terminals		
	HDMI output HDMI jack x 1	Video: 480i, 480p, 720p, 1080i, 1080p, 1080p/24F / Audio	
Rear	Audio output (Coaxial digital) RCA jack x 1	0.5 Vp-p (75 Ω)	
	USB terminal x 1	5V 500mA	
	LAN terminal	100BASE-T	

Note:

• The specifications and design of this product are subject to change without notice.

Limited Warranty

Limited United States Warranty for Digital Audio Video ("DAV") Product

Toshiba America Information Systems, Inc. ("TAIS") makes the following limited warranties to original consumers in the United States. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS DAV PRODUCT AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE. DAV PRODUCTS PURCHASED IN THE U.S.A. OR PUERTO RICO AND USED ANYWHERE OUTSIDE OF THE U.S.A. OR PUERTO RICO, INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES. DAV PRODUCTS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A. OR PUERTO RICO, INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES. DAV PRODUCTS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A., ARE NOT COVERED BY THESE WARRANTIES.

Limited 90-Day Warranty on Parts and Labor

TAIS WARRANTS THIS PRODUCT AND ITS PARTS AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF 90-DAYS FROM THE DATE OF ORIGINAL RETAIL PURCHASE. DURING THIS PERIOD, TAIS WILL, AT TAIS' SOLE DISCRETION, REPAIR OR REPLACE A DEFECTIVE PART/PRODUCT WITH A NEW OR REFURBISHED PART/PRODUCT MITHOUT CHARGE TO YOU FOR PARTS OR LABOR. ANY PART OR PRODUCT REPLACED UNDER THIS LIMITED WARRANTY BECOMES THE PROPERTY OF TAIS. IN SOME CASES, YOU MAY BE RESPONSIBLE FOR DELIVERING THE PRODUCT TO A SERVICE CENTER.

Rental Units – The limited warranty period begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

Your Responsibility – Read the owner's manual thoroughly before installing or operating this Product. Complete and mail the enclosed product registration card (if provided) or register your Product online at www.support. toshiba.com. Registration of your Product will enable TAIS to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. Failure to complete and return the product registration card does not diminish your warranty rights.

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

(1) This Limited Warranty is extended only to the original purchaser and only covers product purchased as new (2) A purchase receipt or other proof of the original purchase date is required for warranty service. (3) All warranty servicing of this Product must be performed by an Authorized TAIS Service Provider. (4) The warranties from TAIS are effective only if this Product is purchased and operated in the U.S.A. or Puerto Bico. (5) Bemoval and reinstallation of product that is mounted in such a manner as to impede normal service is not covered under these warranties. This includes wall mounts, custom cabinets and other installation methods that do not provide for direct and immediate access to the product for service purposes. Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna, satellite or cable systems are not covered by this limited warranty. (6) Reception or other problems caused by inadequate antenna systems, misaligned satellite dishes, improperly installed cable drops or use with non-standard signals or sources are your responsibility and are not covered by this limited warranty. (7) This limited warranty is void if the product is used outside the range of the temperature (heat/cold) and/or moisture operating conditions as outlined in the product's specification listed in the Owner's manual, or if the product is exposed to excessive smoke, dust, or other airborne contaminants or environmental conditions. (8) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any Product or parts that have been lost or discarded by you or to damage to the Product or parts caused by fires, misuse, abuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TAIS; use or malfunction through simultaneous use of this Product and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible. (9) Product purchased "AS-IS" or "With known faults, defects or problems" are not covered by this limited warranty. (10) Product previously owned or registered by a consumer and resold is not covered by this limited warranty (11) Product that is refurbished and resold is not covered under this limited warranty

How to Obtain Warranty Services

After following all of the operating instructions in the Owner's manual, review the section entitled "Concierge" located on our Customer Support Web site at www.support. toshiba.com. If you find that service is needed, follow the instructions provided on the web site or please contact TAIS' Consumer Solution Center toll free at 1-800-631-3811. You must present upon request your original bill of sale or other proof of purchase including the serial number for in warranty service.

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Disclaimer

BDX4150 requires a wireless adapter - sold separately 1080p capable display is required for viewing in 1080p. Viewing HD content and up-converting DVD content may require an HDCP capable input on your display device. While up-converting DVD video content may result in a picture that appears to be near HD quality, results may vary depending on content, display and settings. Feature performance may vary and may also require an alwayson broadband internet connection. Firmware update and additional bandwidth may be required. BD-Live™ requires connection of a USB flash drive of at least 1 GB (sold separately) to USB port. BD-Live™ is only supported via Ethernet so when using single USB port for internet access, BD-Live™ will not be available. Performance of interactive features may vary due to disc design or content, and may also require an always-on broadband internet connection. Firmware update may be required for some interactive features. Some features may require additional bandwidth. Third party internet services are not provided by Toshiba, may change or be discontinued at any time and may be subject to third party restrictions. Toshiba makes no representations or warranties about these services, which may require the creation of a user account through a computer with internet access. Third party internet service users may incur one-time and/ or recurring charges. For Dolby® TrueHD and DTS-HD Master Audio I Essential™ playback, content encoded in Dolby® TrueHD and DTS-HD Master Audio I Essential™ format required. Viewing 1080p/24 fps output requires 1080p/24 fps encoded content and an HD display capable accepting a 1080p/24Hz signal. Supported file types: JPEG, MP3, WMA, and AVCHD. Some recordable media cards or files may not be supported. Product specifications, information and availability are all subject to change without notice.

I. HEALTH/SAFETY-RELATED

IMPORTANT SAFETY INFORMATION CONCERNING 3D VIEWING

 If you or any viewer experiences the following symptoms or any other discomfort from viewing 3D video images, stop viewing and contact your health

oure provider.	
Convulsions	Eye or muscle twitching
Loss of awareness	Altered vision
Involuntary movem	ents Disorientation
Eye Strain	Nausea/Vomiting
Dizziness	Headaches Fatigu

care provider

- Some viewers may experience a seizure or blackout when exposed to certain flashing images or lights contained in certain 3D television pictures or video games. Anyone who has had a seizure, loss of awareness, or other symptom linked to an epileptic condition, or has a family history of epilepsy, should contact a health care provider before using the 3D function.
- If you feel eye fatigue or other discomfort from viewing 3D video images, stop viewing and take a rest until the condition is eliminated.
- Due to the possible impact on vision development, viewers of 3D video images should be age 6 or above. Children and teenagers may be more susceptible to health issues associated with viewing in 3D and should be closely supervised to avoid prolonged viewing without rest.
- Avoid use of the 3D function when under the influence of alcohol.
- Watching the screen while sitting too close for an extended period of time may cause eye strain. Consult your display manual to determine the ideal viewing distance.
- Viewing in 3D may cause dizziness and/or disorientation for some viewers. Therefore, to avoid injury do not place your player or display near open stairwells, balconies, or wires and do not sit near objects that could be broken if accidentally hit.
- Carefully read instructions provided with your display and/or 3D glasses before 3D viewing.

II. PERFORMANCE RELATED

- This product is designed to playback Blu-ray discs that comply with the 3D specifications of Blu-ray Disc Association. It is not compatible with other 3D specifications.
- 3D capable display, 3D eyewear and High Speed HDMI cable (all sold separately) are required for playback and viewing 3D content.
- If you route your signal through an AV receiver or other video distribution device they must be 3D capable to support 3D viewing. Viewing HD content and up-converting DVD content may require an HDCP capable input on your display device.
- While up-converting DVD video content may result in a picture that appears to be near HD quality, results may vary depending on content, display and settings.
- 1080p capable display is required for viewing content in 1080p.
- 1080p/24 fps encoded content and an HD display capable of accepting a 1080p/24Hz signal are required for viewing 1080p/24 fps content.



- Performance of interactive and/or network features may vary due to disc design or content, and may also require an always-on broadband internet connection.
 Firmware update may be required for some interactive and/or network features. Some features may require additional bandwidth.
- BD-Live[™] may require a USB flash drive with available storage capacity of at least 1GB (sold separately).
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- For Dolby[®] TrueHD and DTS-HD Master Audio I Essential[™] playback, content encoded in Dolby[®] TrueHD and DTS-HD Master Audio I Essential[™] format required. Supported file types: JPEG, MP3, WMA, and AVCHD. Some recordable media, cards or files may not be supported. Deep Color feature as specified in HDMI specification requires compatible Deep Color capable HD display and/or device. Use of HDMI-CEC requires an HDMI-CEC compatible display device. Depending on the specifications of your display device, some or all HDMI-CEC functions may not work even if your display device is HDMI-CEC compatible.
- Products do not play HD DVD discs.
- · Some features subject to delayed availability.
- Because the Blu-ray format and 3D specifications use new technologies, certain disc, content, connection and other compatibility and/or performance issues are possible. If you experience such issues, please refer to www.support.toshiba.com for information on the availability of firmware updates that may resolve your problem, or contact Toshiba Customer Solutions.
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Phone number: 1-800-631-381

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Open-Source Software Included in the Kernel/Rootfs: ("= source must be distributed on request) A copy of the GPL license is provided in Appendix K

Software	License (*= source must be distributed
	on request)
	L2.0 license is provided in Appendix K PL2.1 license is provided in Appendix L
backtrace	GPL2
directfb-extra	GPL2
cairo	LGPL2
directfb	GPL2
iconv	LGPL2
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expat	The terms and conditions which apply to this software are provided in Appendix I.
nng	The terms and conditions which apply to this software are provided in Appendix C.
ong	The terms and conditions which apply to this software are provided in Appendix D.
cml	The terms and conditions which apply to this software are provided in Appendix E.
lib	The terms and conditions which apply to this software are provided in Appendix F.
Elecktra	BSD-new
Ping6	BSD-new
ing	BSD-new
ftp	BSD-new
racepath6	BSD-new
racepath	BSD-new
raceroot6	BSD-new
Inzip	BSD-new
edit	BSD-new
/i	BSD-new
'iew	BSD-new
tdl	LPGL
ontconfig	
bixman	
lite	
nalloc-extras	
cslt nit	

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Utility	Base Version	License	
*kernel	base version	GPL 2.0	
*arp	net-tools-1.52	GPL 2.0 GPL 2.0	
*bash	GNU Bash-3.2	GPL 2.0 GPL 2.0	
*cramfsck	cramfs	GPL 2.0 GPL 2.0	
*dhcpcd	dhcpcd-1.3	GPL 2.0	
*e2fsprogs	e2fsprogs-1.41.5	GPL 2.0 GPL 2.0	
*fdisk	fdisk-2.10m	GPL 2.0	
*getty	TinyLogin-0.80	GPL 2.0	
*hostname sysutils	sysutils	GPL 2.0	
*ifconfig	net-tools-1.52	GPL 2.0	
*kill	sysutils	GPL 2.0	
*mkcramfs	cramfs	GPL 2.0	
*ntfs-3g	ntfs-3g 2009.4.4	GPL 2.0	
*passwd	TinyLogin-0.80	GPL 2.0	
*ps	sysutils	GPL 2.0	
*route	net-tools-1.52	GPL 2.0	
*sfdisk	sfdisk-3.07	GPL 2.0	
*shutdown	sysutils	GPL 2.0	
*tinylogin	TinyLogin-0.80	GPL 2.0	
*hotplug	hotplug-1.8	GPL 2.0	
*utelnetd	utelnetd-0.1.3	GPL 2.0	
*procps	procps-3.2.8	GPL 2.0	
*libfreetype.so.6.3.	freetype-2.1.2	GPL 2.0	
*libtermcap.so	GNU Bash-2.05	GPL 2.0	
*libtermcap.so.2.0.8	GNU termcap 1.3	GPL 2.0	
zlib	zlib-1.2.3	zlib license	
The terms and conditions provided in Appendix F.			
libusb.so	libusb-0.1.12	LGPL 2.1	
uClibc	uClibc-nptl-0.9.29- 20070423	LGPL 2.1	
tcpdump	tcpdump-4.0.0	BSD-new	
The terms and conditions provided in Appendix M.	which apply to this so	ftware are	
strace	strace 4.5.18	BSD-new	
The terms and conditions provided in Appendix M.			
hdparm	hdparm-6.9	BSD-new	
The terms and conditions provided in Appendix M.			
libpcap	libcap-1.0.0	BSD-new	
The terms and conditions provided in Appendix M.	which apply to this so		
portmap	portmap	BSD-old	
The terms and conditions provided in Appendix J.			
	Advertising sentence is: Copyright (c) 1990 The Regents of the University of California. All rights reserved.		
openssi	openssl 0.9.8k	BSD-old. See advertisement notice above.	

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Utility	License	Utility	License	Utility	License
pata_platform.ko	GPL	agetty	GPL2.0	nice	GPL2.0
scsi_wait_scan.ko	GPL	awk	GPL2.0	od	GPL2.0
Badblocks	GPL2.0	cat	GPL2.0	pivot_root	GPL2.0
compile_et	GPL2.0	chgrp	GPL2.0	printenv	GPL2.0
e2fsck	GPL2.0	chmod	GPL2.0	printf	GPL2.0
flash erase	GPL2.0	chown	GPL2.0	pwd	GPL2.0
flash eraseall	GPL2.0	chroot	GPL2.0	readlink	GPL2.0
flash info	GPL2.0	cmp	GPL2.0	reboot	GPL2.0
fsck	GPL2.0	ср	GPL2.0	renice	GPL2.0
geneccerror	GPL2.0	cut	GPL2.0	rmdir	GPL2.0
hdparm	GPL2.0	date	GPL2.0	rm	GPL2.0
hotplog	GPL2.0	dd	GPL2.0	rmmod	GPL2.0
libcom err	GPL2.0	df	GPL2.0	samba	GPL2.0
libe2p	GPL2.0	diff3	GPL2.0	sdiff	GPL2.0
libext2fs	GPL2.0	diff	GPL2.0	sed	GPL2.0
libgcc s	GPL2.0	dirname	GPL2.0	seq	GPL2.0
libnandutils	GPL2.0	dmesg	GPL2.0	simpleinit	GPL2.0
libproc	GPL2.0	du	GPL2.0	sleep	GPL2.0
nanddump	GPL2.0	echo	GPL2.0	sort	GPL2.0
nandwrite	GPL2.0 GPL2.0	egrep	GPL2.0	stty	GPL2.0
		env	GPL2.0	swapoff	GPL2.0
netstat	GPL2.0	expr	GPL2.0	swapon	GPL2.0
ntpdate	GPL2.0	false	GPL2.0	sync	GPL2.0
top	GPL2.0	fgrep	GPL2.0	syslogd	GPL2.0
tune2fs	GPL2.0	find	GPL2.0	tail	GPL2.0
ubiattach	GPL2.0	free	GPL2.0	tar	GPL2.0
ubicrc32	GPL2.0	gawk	GPL2.0	tee	GPL2.0
ubidetach	GPL2.0	grep	GPL2.0	touch	GPL2.0
ubiformat	GPL2.0	gunzip	GPL2.0	tr	GPL2.0
ubimkvol	GPL2.0	gzexe	GPL2.0	true	GPL2.0
ubinfo	GPL2.0	gzip	GPL2.0	tty	GPL2.0
ubinize	GPL2.0	head	GPL2.0	umount	GPL2.0
ubirename	GPL2.0	hexdump	GPL2.0	unnamed	GPL2.0
ubirmvol	GPL2.0	hostname	GPL2.0	uniq	GPL2.0
ubiupdatevol	GPL2.0	id	GPL2.0	unzip	GPL2.0
vmstat	GPL2.0	install	GPL2.0	wc	GPL2.0
libusb-config	GPL2.1	kill	GPL2.0	which	GPL2.0
libusbpp	GPL2.1	klogd	GPL2.0	whoami	GPL2.0
libuuid	GPL2.1	In	GPL2.0	xargs	GPL2.0
Тір	Unique license	logger	GPL2.0	yes	GPL2.0
Unzip	GPL2.0	login	GPL2.0	zcat	GPL2.0
brcm_wifi.hotplug	GPL2.0	ls	GPL2.0	zcmp	GPL2.0
hostname	GPL2.0	Ismod	GPL2.0	zdiff	GPL2.0
libss	GPL2.0	Izo	GPL2.0	zforce	GPL2.0
libstdc++	GPL2.0	md5sum	GPL2.0	zgrep	GPL2.0
mk_cmds	GPL2.0	mkdir	GPL2.0	zmore	GPL2.0
mke2fs	GPL2.0	mknod	GPL2.0	znew	GPL2.0
mklost+found	GPL2.0	mkswap	GPL2.0		
mount.hotplug	GPL2.0	modprobe	GPL2.0		
mtdinfo	GPL2.0	more	GPL2.0		
nandsim.ko	GPL2.0	mount	GPL2.0		
tftpd	GPL2.0	mv	GPL2.0		

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This library's function is primarily to read and display MNG animations. It is not meant as a full-featured image-editing component! It does however offer creation and editing functionality at the chunk level. (future modifications may include some more support for creation and or editing)

*/

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2006-Jan-27

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--- end of FTL.TXT ---

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified



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Appendix N - CinemaNow

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c. Curl/ 7.12.2

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d. C-ARES 1.6.0

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e. Openssl 0.9.5a

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